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IDEA-0335-71

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18 November 1971

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report 15-16 November 1971

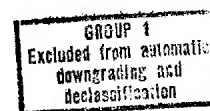
1. Location and Purpose of Visit:

The undersigned visited the NASA Manned-Spacecraft Center, Houston, Texas, as a member of the Air Force Surgeon General, Lt/Gen Towner's party. The purpose of this visit was primarily to tour the NASA facility; however, those individuals interested in Life-Support separated from the main group and spent the entire time with the crew systems' personnel.

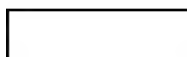
2. Results of Visit:

The complete Life Support system for both the APOLLO and Sky Lab Missions were explained in great detail. The undersigned was fortunate in being given the opportunity to suit up for approximately two (2) hours in the APOLLO suit for a comparison of that garment to the S1010 PPA (Project Suit).

It is interesting to note that although the APOLLO suit pressurizes to approximately 4 psi and provides much better mobility than our suit at a 3.5 psi pressure, this increased mobility is accomplished at the expense of repetitive use. (One lunar mission per suit.)



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Joint flexion is provided by means of molded rubber convolutions which have an extremely limited service life. S1010 flexion on the other hand is provided by link net which has proved itself to be quite durable in continued use over the past four or five years. Additionally, the NASA suit operates throughout in a 100% oxygen environment presenting somewhat of a fire threat and its cost is about \$100,000 with an additional \$200,000 life-support backpack unit which remains on the lunar surface following the extra-vehicular activity.

3. All the literature covering this most interesting visit is available in the AMS/OSA office.

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CONCURRENCE AND/OR COMMENT

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